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**LIST OF PLANTS RECENTLY COLLECTED ON SHIPS' BALLAST IN THE
NEIGHBORHOOD OF PHILADELPHIA.**

BY ISAAC BURK.

Since 1867, when Aubrey H. Smith, Esq., published his "Notes on some Colonies of Plants," in the Proceedings of the Academy, there have been large additions made to the number, and, as some of them are likely to become permanent colonists, and others are interesting, either from their rarity or the place of their nativity, I propose to give a list of such as have been collected since that time as far as I have been able to ascertain them.

The extensive improvements made in the lower portion of the city by the Pennsylvania Railroad and the American Steamship Company, and the consequent increase in the number of vessels required to carry away merchandise and produce, have been the means of introducing a great variety of plants, many of which exist but a single season and then disappear, whilst others maintain a foothold for a longer period.

Some which do not flower the first year were given the protection of a cool greenhouse, and in this way I have become acquainted with some very interesting plants.

Much of the land on which these improvements have been made was low marsh, which was covered with the mud dredged from the docks, and when this had attained sufficient consistency covered with any kind of ballast which could be obtained, much of it being chalk or oolite, showing that it came from British ports, and producing plants common in such localities.

To avoid repetition I have not given the native habitat of such as are common on the British coasts, whether native or naturalized, as it is reasonable to suppose we have received them from that source, but in all cases where they are not noticed in the British flora, I have endeavored to give the habitat of each species.

1. *Ranunculus philonotis*, Ehr. Kaighn's Point.
2. *Papaver dubium*, L. Kaighn's Point.
3. *Papaver hybridum*, L. Kaighn's Point.
4. *Sisymbrium Sophia*, L. Greenwich Point.
5. *Sisymbrium irio*, L. Kaighn's Point.
6. *Erisimum cheiranthoides*, L. Old Navy Yard.

7. *Brassica tenuifolia*, Boiss. Kaighn's and Greenwich Points.
8. *Brassica monensis*, Boiss.
9. *Brassica erucastrum*, Bull. Huds.
10. *Lepidium latifolium*, L.
11. *Rapistrum rugosum*, All.
12. *Alyssum incanum*, L. Berton, D. C.
13. *Reseda luteola*, L. Kaighn's Point.
14. *Reseda lutea*, L. Greenwich Point.
15. *Reseda lutea* var. *maritima*. Greenwich Point.
16. *Reseda alba*, L. Greenwich Point.
17. *Reseda odorata*, L. Greenwich Point.
18. *Gynandropsis pentaphylla*, D. C. Girard Point. Nat. of S. America.
19. *Cleome pungens*, Willd. Very abundant at Greenwich Point along with *Polygonum Orientale* on mud freshly dredged from the bottom of the river. S. America.
20. *Silene inflata*, Smith. Greenwich Point.
21. *Silene noctiflora*, L. Greenwich Point.
22. *Lychnis vespertina*, Sibth. Greenwich Point.
23. *Lychnis diurna*, Sibth. Greenwich Point.
24. *Vaccaria vulgaris*, Host. Greenwich Point.
25. *Corregiola littoralis*, L. Kaighn's Point. Very rare.
26. *Frankenia pulverulenta*, L. Kaighn's Point. A single specimen.
27. *Tribulus terrestris*, L. Greenwich and Kaighn's Points.
28. *Malva parviflora*, L. Greenwich and Kaighn's Points.
29. *Sphæralcea miniata*, Spach. Kaighn's Point. Nat. of South America.
30. *Geraneum dissectum*, L. Greenwich Point.
31. *Geraneum molle*, L. Kaighn's Point.
32. *Oxalis corniculata*, L. Greenwich Point. Bentham seems to think this has been introduced into England from America, but it appears to be much more common there than here, and Linnæus gives Italy, Sicily, and Germany as its native habitat.
33. *Medicago sativa*, L. Kaighn's and Greenwich. Of a weak prostrate habit. Specimens at the Centennial Exhibition, grown in Kansas, were much stouter and rigidly erect.
34. *Trigonella Monspeliaca*, L.
35. *Trigonella ornithopodoides*, L. A single specimen.
36. *Lotus corniculatus*, L. Kaighn's Point.
37. *Trifolium hybridum*, L. This appears likely to take permanent possession of the sandy soil of New Jersey, and will probably make a valuable forage plant.
38. *Lathyrus aphaca*, L. Kaighn's Point. A single plant.
39. *Psoralea bituminosa*, L. Kaighn's Point. Native of S. Europe.
40. *Potentilla reptans*, L. Kaighn's Point.

41. *Potentilla rivalis*, Nutt. Greenwich Point. This is described as a native of Colorado and the Western States, and it is singular how it should have found its way here, but it is possible it may have a much wider range than supposed, and might easily be mistaken for a slender form of *P. Norwegica*, L.
42. *Lythrum alatum*, Ph. Greenwich Point.
43. *Ecbalium agrestis*, Reich. Nat. of Southern Europe.
44. *Tetragonia*, sp. Kaighn's Point.
45. *Mesembryanthemum nodosum*, L. Kaighn's Point.
46. *Scandix pecten*, L. Kaighn's Point.
47. *Richardsonia scabra*, St. Hil. Nat. S. America—Brazil to Peru.
48. *Calycera balsamitifolia*, Rich. Kaighn's Point. Nat. of Chili. Interesting as a representative of the rare natural order Calycerea.
49. *Mikania gonocladus*, D. C. Kaighn's Point. Nat. of the West Indies and Mexico.
50. *Acanthospermum xanthoides*, D. C. Kaighn's and Girard Points.
51. *Acanthospermum hispida*, D. C. Both natives of Brazil.
52. *Bidens leucantha*, Willd. Old Navy Yard. Native of the Southern States.
53. *Grindelia glutinosa*, Dunal. Kaighn's Point. South America.
54. *Anthemis nobilis*, L. Greenwich.
55. *Anthemis tinctoria*, L. Greenwich.
56. *Chrysanthemum segetum*, L. Greenwich.
57. *Matricaria chamomilla*, L. Greenwich.
58. *Matricaria inodora*, L. Greenwich.
59. *Artemisia vulgaris*, L. Greenwich.
60. *Artemisia absinthium*, L. Greenwich.
61. *Centaurea cyanus*, L. Greenwich.
62. *Centaurea nigra*, L. Greenwich.
63. *Centaurea solstitialis*, L. Greenwich.
64. *Carduus tenuifolius*, L. Kaighn's and Greenwich.
65. *Tussilago Farfara*, L. Kaighn's and Greenwich.
66. *Senecio Jacobæa*, L. Kaighn's Point.
67. *Calendula arvensis*, L. Kaighn's and Greenwich Points.
68. *Onopordon acanthium*, L. Greenwich.
69. *Picris hieracioides*, L. Greenwich.
70. *Helminthia echioides*, Gært. Kaighn's and Greenwich Points.
71. *Crepis tectorum*, L. Greenwich Point.
72. *Crepis biennis*, L. Greenwich Point.
73. *Hypochaeris radicata*, L. Greenwich Point.
74. *Apargia hirta*, Hoff. Greenwich Point.
75. *Plantago coronopus*, L. Old Navy Yard.
76. *Linaria spuria*, Willd. Greenwich.
77. *Linaria Elatine*, Desf. Kaighn's Point.
78. *Linaria minor*, L. Kaighn's Point.
79. *Antirrhinum Orontium*, L. Kaighn's Point.

80. *Veronica hederæfolia*, L.
81. *Veronica Buxbaumii*, Tenore. Greenwich Point.
82. *Scrophularia aquatica*, L. Kaighn's Point.
83. *Scoparia flava*, Cham. Kaighn's Point. Nat. of South America.
84. *Mentha aquatica*, L. Petty's Island.
85. *Ballota nigra*, L. Kaighn's Point.
86. *Stachys annua*, L. Kaighn's Point.
87. *Stachys sylvatica*, L. Greenwich Point.
88. *Stachys arvensis*, L. Greenwich Point.
89. *Tournefortia heliotropioides*, Hook. Kaighn's Point. Nat. of Buenos Ayres.
90. *Solanum sisymbriifolium*, Lam. Native of Brazil.
91. *Solanum rostratum*, Dunal. Native of the Western States and Territories.
92. *Solanum eleagnifolium*, Cav. S. America, Mexico, and Chili.
93. *Datura Metel*, L. Girard Point. Nat. of East Indies.
94. *Nicotiana glauca*, Graham. Kaighn's Point. Nat. of Brazil.
95. *Nicotiana longiflora*, Cass. Kaighn's Point. Native of Chili, but naturalized to some extent in this neighborhood.
96. *Hyoscyamus niger*, L. Kaighn's Point.
97. *Hyoscyamus alba*, L. Kaighn's Point. Southern Europe.
98. *Chenopodium polyspermum*, L. Kaighn's and Greenwich Points.
99. *Chenopodium vulvaria*, L. Kaighn's and Greenwich Points.
100. *Atriplex rosea*, L. Greenwich, very abundant on chalky ballast, and with *A. patula* and *A. arenaria* presenting a great variety of forms.
101. *Blitum maritimum*, L. Greenwich Point.
102. *Alternanthera achyrantha*, R. Br. E. I., S. America, and Brazil.
103. *Amarantus blitum*, L. Greenwich Point.
104. *Amarantus deflexus*, L. Greenwich Point.
105. *Polygonum herniarioides*, Nutt. Camden. One specimen.
106. *Polygonum amphibium*, L., var. *terrestre*, Willd. Greenwich Point.
107. *Rumex maritimus*, L. Greenwich Point.
108. *Beta maritima*, L., var.
109. *Euphorbia paralias*, L. Girard Point.
110. *Euphorbia peplis*, L. Greenwich Point.
111. *Euphorbia peplus*, L. Greenwich Point.
112. *Euphorbia segetalis*, L. Greenwich Point.
113. *Mercurialis annua*, L. Kaighn's and Greenwich Points.
114. *Carex muricata*, L. Kaighn's Point.
115. *Agrostis spica venti*, L. Kaighn's and Greenwich Points.
116. *Agrostis ovina*, L. Greenwich.
117. *Alopecurus pratensis*, L. Greenwich.
118. *Phalaris paradoxus*, L. Greenwich, E. Indies, and shores of the Mediterranean.
119. *Lolium italicum*, Braun. Kaighn's Point.
120. *Hordeum murinum*, L. Kaighn's Point.

121. *Panicum colonnum*, L. Nat. of India, but found in Florida by Dr. Chapman.
122. *Panicum miliacea*, L. Kaighn's and Greenwich Points.
123. *Andropogon halapensis*, L. Girard Point. Nat. of Syria.
124. *Pragmitis communis*, L. Kaighn's Point. If this is not a distinct species, it is a very singular variety. The whole plant is but about 2 feet high, and of a pale glaucous hue. It has been growing there for two or three years, but did not flower till this season.
125. *Holcus mollis*, L. Kaighn's Point.

I am under obligations to Messrs. Parker and Martindale who collected many of the plants, and to Professor Porter who assisted in naming them.